

# Comparisons of Job Characteristics

**Focus Occupation:** [Electrical and Electronics Repairers, Commercial and Industrial Equipment \(49-2094\)](#)

**Associated Occupation:** [Electro-Mechanical Technicians \(17-3024\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 93

**Focus Occupation:** Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

**Associated Occupation:** Electro-Mechanical Technicians (17-3024)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Computers and Electronics	8.4	16.1	17.5	0 Current knowledge level may be sufficient
Mathematics	9.2	16.0	11.9	<< Extensive education and/or training may be required
Mechanical	6.8	15.6	16.4	0 Current knowledge level may be sufficient
Engineering and Technology	5.7	14.2	11.7	< Expanded education and/or training may be required
Production and Processing	6.0	10.8	8.4	< Expanded education and/or training may be required
Design	5.2	7.8	9.6	> Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 86

**Focus Occupation:** Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

**Associated Occupation:** Electro-Mechanical Technicians (17-3024)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation Monitoring	6.6	13.9	12.6	< A higher skill level may be required
Quality Control Analysis	5.9	12.9	13.3	0 Current skill level may be sufficient
Troubleshooting	4.5	12.8	12.0	0 Current skill level may be sufficient
Repairing	3.4	12.3	13.3	0 Current skill level may be sufficient
Equipment Maintenance	3.5	10.8	11.1	0 Current skill level may be sufficient
Operation and Control	5.4	10.5	9.7	0 Current skill level may be sufficient
Installation	1.7	10.2	9.3	0 Current skill level may be sufficient

Equipment Selection	3.3	9.2	10.5	>	Skill level is likely sufficient
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 87			
Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094) Associated Occupation: Electro-Mechanical Technicians (17-3024)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Near Vision	11.1	13.5	12.0	<	Some improvement in abilities may be required
Finger Dexterity	7.6	12.5	12.9	0	Current ability level may be sufficient
Control Precision	6.6	12.1	9.8	<	Some improvement in abilities may be required
Arm-Hand Steadiness	6.8	12.0	10.7	<	Some improvement in abilities may be required
Manual Dexterity	6.5	11.6	11.2	0	Current ability level may be sufficient
Far Vision	7.8	11.5	9.7	<	Some improvement in abilities may be required
Selective Attention	8.7	11.4	8.8	<<	Extensive improvement in abilities may be required
Perceptual Speed	7.4	11.2	10.7	0	Current ability level may be sufficient
Visual Color Discrimination	6.4	10.6	10.6	0	Current ability level may be sufficient
Auditory Attention	5.9	10.3	8.7	<	Some improvement in abilities may be required
Reaction Time	4.8	10.3	8.7	<	Some improvement in abilities may be required
Hearing Sensitivity	5.6	9.8	9.3	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 83
<b>Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)</b> <b>Associated Occupation: Electro-Mechanical Technicians (17-3024)</b>		
Work Activities	Exclusivity of Activity	
Analyze technical data, designs, or preliminary specifications	47	
Communicate technical information	4	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install electronic equipment, components, or systems	62	
Install/connect electrical equipment to power circuit	57	
Modify electrical or electronic equipment or products	74	
Read blueprints	10	

Read schematics	34
Read technical drawings	7
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Solder electrical or electronic connections or components	55
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use oscilloscopes in electronics repair	77

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 83

**Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)**  
**Associated Occupation: Electro-Mechanical Technicians (17-3024)**

Tools and Technologies	Exclusivity
Business function specific software	1
Chemical evaluation instruments and supplies	10
Computer data input devices	2
Computer printers	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Data management and query software	1
Electrical measuring and testing equipment	7
Electronic and communication measuring and testing instruments	14
Finance accounting and enterprise resource planning ERP software	2
Forming tools	2
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Integrated circuits	18
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Light and wave generating and measuring equipment	4
Machine tools	7
Measuring and layout tools	3
Metal bending and forming machinery	17
Power tools	2
Prying and bending tools	10
Soldering and brazing and welding machinery and supplies	6
Temperature and heat measuring instruments	6

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.